

Appl. No. 10/644,442
Amdt. Dated May 3, 2005
Reply to Office action of April 27, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A propeller shaft assembly comprising:
a tubular member,
a connecting member fixed to each end of the tubular member, and
a support member fixed within the tubular member, the support member comprising a plurality of radial elements extending a first length (L1) within the tubular member and engaging an interior surface of the tubular member to increase the bending frequency of the propeller shaft assembly, wherein said support member comprises a central hub coaxially located within said tubular member and wherein said plurality of radial elements extend from said central hub to said interior surface of said tubular member, wherein said support member has the first length (L1) and said ~~tube~~ tubular member has a second length (L2) and the ratio of L1/L2 is less than 1.0, and
wherein each radial element includes an end portion having a groove formed therein for receiving an adhesive.
2. (Canceled)
3. (Currently Amended) An assembly according to claim 1 wherein ~~each radial element includes an~~ said enlarged end portion ~~for engaging~~ engages ~~said~~ tubular member interior surface.
4. (Canceled)
5. (Currently Amended) An assembly according to claim [[4]] 1 wherein ~~said~~ groove extends the first length (L1) of the respective radial element.

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6. (Currently Amended) An assembly according to claim [[4]] 1 wherein said groove is transverse to the first length (L1) of the respective radial element.
7. (Original) An assembly according to claim 1 wherein the number of radial elements is 3 to 8.
8. (Original) An assembly according to claim 1 wherein said tubular member comprises metal and said support member comprises metal, plastic, or reinforced plastic.
9. (Original) An assembly according to claim 1 wherein each radial element includes a plurality of openings formed along the first length (L1) for reducing the weight of the stiffening member.
10. (Canceled)
11. (Original) An assembly according to claim 1 wherein the connecting members are joint elements or stub shafts.
12. (Currently Amended) A power transmission shaft comprising:
a metal tube having a joint element or stub shaft fixed to each end thereof, and
a support member co-axially located within said tube and engaging an interior surface of said tube,
said support member comprising a central hub and a plurality of radial elements extending between said central hub and said interior surface, each of the radial elements including an end portion for engaging said interior surface, wherein said support member has a first length (L1) and said tube has a second length (L2) and the ratio of L1/L2 is less than 1.0, and
wherein each end portion includes a groove formed therein for receiving an adhesive.

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13. (Canceled)

14. (Currently Amended) A power transmission shaft according to claim [[13]] 12 wherein each radial element extends the first length (L1) of the support member.

15. (Original) A power transmission shaft according to claim 12 wherein the number of radial elements is 3 to 8.

16. (Canceled)

17. (Original) A power transmission shaft according to claim 14 wherein each radial element includes a plurality of openings formed along the first length (L1) for reducing the weight of the stiffening member.

18. (Currently Amended) A power transmission shaft comprising:
a metal tube having a joint element or stub shaft fixed to each end thereof, and

a support member co-axially located within said tube and engaging an interior surface of said tube,

said support member comprising a central hub and a plurality of radial elements extending between said central hub and said interior surface, said plurality of radial elements forming opposing pairs of radial elements equally circumferentially spaced around said interior surface, wherein said support member has a first length (L1) and said tube has a second length (L2) and the ratio of L1/L2 is less than 1.0, and

wherein each radial element includes an end portion having a groove formed therein for receiving an adhesive.

19. (Original) A power transmission shaft according to claim 18 wherein the number of radial elements equals 4 and the number of opposing pairs of radial elements equals 2.

20. (Original) A power transmission shaft according to claim 18 wherein the number of radial elements equals 6 and the number of opposing pairs of radial elements equals 3.